

SEQUENCE LISTING

<110> ARES TRADING S.A.
 FAGAN, Richard Joseph
 DAVIDS, Andrew Robert
 PHELPS, Christopher Benjamin
 POWER, Christine
 BOSCHERT, Ursula
 CHVATCHKO, Yolande

<120> CYTOKINE AGONIST MOLECULES

<130> C&R-116

<140> 10/579,113

<141> 2006-05-11

<150> PCT/GB2004/004772

<151> 2004-11-12

<150> GB0326393.6

<151> 2003-11-12

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<213> Homo sapiens

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Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp
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<212> DNA

<213> Homo sapiens

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gcaccctgcg gcttgactat cgagaccgta tccgactctt tgaaaatggc tccctgcttc 240
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<210> 4
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<213> Homo sapiens

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Pro Leu Glu Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly
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Thr Val Gly Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser
20 25 30
Ser Asp Arg Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val
35 40 45
Thr Val Val Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro
50 55 60
Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu
65 70 75 80
Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser
85 90 95
Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val
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Asp Val

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<212> DNA
<213> Homo sapiens

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<400> 5
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atggcaagcc cctcctcaat gactcgagaa tgctcctgtc ccccgaccaa aaggtgctca 180
ccatcaccgg cgtgctcatg gaggatgacg acctgtacag ctgcatgggtg gagaacccca 240
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<210> 6
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<212> PRT
<213> Homo sapiens

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1 5 10 15
 Leu Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys
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 Pro Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser
 35 40 45
 Arg Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val
 50 55 60
 Leu Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile
 65 70 75 80
 Ser Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg
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 tgacagtctg tgccctgctgg aaaccctcca aaag 94

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 <211> 31
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 <213> Homo sapiens

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 1 5 10 15

Val Thr Leu Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg
 20 25 30

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 <212> DNA
 <213> Homo sapiens

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 <211> 25
 <212> PRT
 <213> Homo sapiens

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 1 5 10 15

Asn Asp Asp Arg Leu Lys Pro Glu Ala
20 25

<210> 11
<211> 71
<212> DNA
<213> Homo sapiens

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<210> 12
<211> 23
<212> PRT
<213> Homo sapiens

<400> 12
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1 5 10 15

Leu Tyr Ile Leu Lys Asp Lys
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<210> 13
<211> 303
<212> DNA
<213> Homo sapiens

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tcgcccga gggccccgag ctgcggcgcc cgctcgcgca gcgcctcgcg cacactgcgg 240
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<210> 14
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<212> PRT
<213> Homo sapiens

<400> 14
Asp Ser Pro Glu Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala
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Thr Glu Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly
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Arg Ser Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser
35 40 45

Pro Ala Arg Ser Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg
50 55 60

Ala Pro Ser Ser Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg
65 70 75 80

Thr Ala Gly Val His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val
85 90 95

Glu Ile Ser Ala
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<210> 15
<211> 1251
<212> DNA
<213> Homo sapiens

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<210> 16
<211> 416
<212> PRT
<213> Homo sapiens

<400> 16
Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
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Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys
 260 265 270
 Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg
 275 280 285
 Leu Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg
 290 295 300
 Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu
 305 310 315 320
 Thr Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly
 325 330 335
 Pro Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly
 340 345 350

Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser
355 360 365

Pro Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser
370 375 380

Pro Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val
385 390 395 400

His Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
405 410 415

<210> 17
<211> 1257
<212> DNA
<213> Mus musculus

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ctgaaggatg gcaaaccctt cctcaatgac tcccgaatgc tcctgtcccc tgaccaaaaag 600
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<210> 18
<211> 418
<212> PRT
<213> Mus musculus

<400> 18
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Leu Ser Pro Phe Val Tyr Leu Leu Leu Ile Gln Pro Val Pro Leu Glu
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Lys
 50 55 60
 Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Val Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Val Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240
 Leu Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu
 245 250 255
 Val Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Lys Ser Arg Lys Lys
 260 265 270
 Arg Lys Leu Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp
 275 280 285
 Asp Arg Leu Lys Ser Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln
 290 295 300
 Glu Arg Lys Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser
 305 310 315 320
 Ser Glu Pro Asp Glu Asn Pro Ala Thr Glu Pro Arg Ser Thr Thr Glu
 325 330 335

Pro Gly Pro Pro Gly Tyr Ser Val Ser Pro Pro Val Pro Gly Arg Ser
 340 345 350

Pro Gly Leu Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala
 355 360 365

Arg Ser Pro Ala Thr Gly Arg Thr His Thr Ser Pro Pro Arg Ala Pro
 370 375 380

Ser Ser Pro Gly Arg Ser Arg Ser Ser Ser Arg Ser Leu Arg Thr Ala
 385 390 395 400

Gly Val Gln Arg Ile Arg Glu Gln Asp Glu Ser Gly Gln Val Glu Ile
 405 410 415

Ser Ala

<210> 19
 <211> 720
 <212> DNA
 <213> Homo sapiens

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 gtgctcacca tcacccgcgt gctcatggag gatgacgacc tgtacagctg catggtggag 660
 aaccccatca gccagggcgc cagcctgcct gtcaagatca ccgtatacag aagaagctcc 720

<210> 20
 <211> 240
 <212> PRT
 <213> Homo sapiens

<400> 20
 Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
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Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80
 Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95
 Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110
 Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125
 Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140
 Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
 145 150 155 160
 Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
 165 170 175
 Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
 180 185 190
 Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
 195 200 205
 Met Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser
 210 215 220
 Gln Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
 225 230 235 240

<210> 21
 <211> 621
 <212> DNA
 <213> Homo sapiens

<400> 21
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 gacaagccag tgaccgtggg gcagtcattt ggcacagagg tcatcgccac cctgcggcct 180
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<210> 22
 <211> 207
 <212> PRT

<213> Homo sapiens

<400> 22

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
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Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser
195 200 205

<210> 23

<211> 328

<212> DNA

<213> Homo sapiens

<400> 23

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gactatcgag acogtatccg actctttgaa aatggctccc tgcttctcag cgacctgcag	240
ctggccgatg agggcaccta tgaggctcag atctccatca ccgacgacac cttcactggg	300
gagaagacca tcaaccttac tgtagatg	328

<210> 24
 <211> 110
 <212> PRT
 <213> Homo sapiens

<400> 24
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 20 25 30
 Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45
 Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60
 Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
 65 70 75 80
 Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95
 Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val
 100 105 110

<210> 25
 <211> 1152
 <212> DNA
 <213> Homo sapiens

<400> 25
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 accaagccca gctacacctg gctgaaggat ggcaagcccc tcctcaatga ctcgagaatg 480
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 gagcccggcc cgcccggtta ctccgtgtct ccgcctgtc ccggccgctc gccggggctg 960
 cccatccgct ctgcccgcgc ctaccgcgc tcccagcgc gctcccagc caccggccgg 1020
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 aactgcgga ctgcgggctg gcacataatc cgcgagcaag acgaggccgg ccggtggag 1140
 atcagcgcct ga 1152

<210> 26

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<211>    383
<212>    PRT
<213>    Homo sapiens

<400>    26
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1              5              10              15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
          20              25              30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
          35              40              45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
          50              55              60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
          65              70              75              80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
          85              90              95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
          100             105             110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
          115             120             125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
          130             135             140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
          145             150             155             160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
          165             170             175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
          180             185             190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Leu
          195             200             205

Tyr Ile Ile Leu Ser Thr Gly Gly Ile Phe Leu Leu Val Thr Leu Val
          210             215             220

Thr Val Cys Ala Cys Trp Lys Pro Ser Lys Arg Lys Gln Lys Lys Leu
          225             230             235             240

Glu Lys Gln Asn Ser Leu Glu Tyr Met Asp Gln Asn Asp Asp Arg Leu
          245             250             255

Lys Pro Glu Ala Asp Thr Leu Pro Arg Ser Gly Glu Gln Glu Arg Lys
          260             265             270

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Asn Pro Met Ala Leu Tyr Ile Leu Lys Asp Lys Asp Ser Pro Glu Thr
 275 280 285

Glu Glu Asn Pro Ala Pro Glu Pro Arg Ser Ala Thr Glu Pro Gly Pro
 290 295 300

Pro Gly Tyr Ser Val Ser Pro Ala Val Pro Gly Arg Ser Pro Gly Leu
 305 310 315 320

Pro Ile Arg Ser Ala Arg Arg Tyr Pro Arg Ser Pro Ala Arg Ser Pro
 325 330 335

Ala Thr Gly Arg Thr His Ser Ser Pro Pro Arg Ala Pro Ser Ser Pro
 340 345 350

Gly Arg Ser Arg Ser Ala Ser Arg Thr Leu Arg Thr Ala Gly Val His
 355 360 365

Ile Ile Arg Glu Gln Asp Glu Ala Gly Pro Val Glu Ile Ser Ala
 370 375 380

<210> 27

<211> 256

<212> PRT

<213> Homo sapiens

<400> 27

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
 1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
 20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
 35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
 50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
 65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
 85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
 100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
 115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
 130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn
210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser
225 230 235 240

Leu Ser Ser Ile Trp Leu Gln Glu Ala Phe Ser Ser Leu Gly Pro Trp
245 250 255

<210> 28

<211> 256

<212> PRT

<213> Homo sapiens

<400> 28

Met Lys Arg Glu Arg Gly Ala Leu Ser Arg Ala Ser Arg Ala Leu Arg
1 5 10 15

Leu Ala Pro Phe Val Tyr Leu Leu Leu Ile Gln Thr Asp Pro Leu Glu
20 25 30

Gly Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly
35 40 45

Lys Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg
50 55 60

Pro Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val
65 70 75 80

Gln Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg
85 90 95

Asp Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu
100 105 110

Gln Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp
115 120 125

Asp Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro
130 135 140

Ile Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu
145 150 155 160

Ser Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro
165 170 175

Ser Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg
180 185 190

Met Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu
195 200 205

Met Glu Asp Asp Asp Leu Asp Ser Cys Val Val Glu Asn Pro Ile Asn
210 215 220

Gln Gly Arg Thr Leu Pro Cys Lys Ile Thr Val Tyr Lys Lys Ser Ser
225 230 235 240

Phe Tyr Ile Ile Cys Leu Lys Glu Ala Ser Ser Ser Phe Gly Pro Trp
245 250 255

<210> 29

<211> 213

<212> PRT

<213> Homo sapiens

<400> 29

Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln
 180 185 190

Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser His
 195 200 205

His His His His His
 210

<210> 30
 <211> 439
 <212> PRT
 <213> Homo sapiens

<400> 30
 Val Asn Ile Thr Ser Pro Val Arg Leu Ile His Gly Thr Val Gly Lys
 1 5 10 15

Ser Ala Leu Leu Ser Val Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro
 20 25 30

Val Val Lys Trp Gln Leu Lys Arg Asp Lys Pro Val Thr Val Val Gln
 35 40 45

Ser Ile Gly Thr Glu Val Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp
 50 55 60

Arg Ile Arg Leu Phe Glu Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln
 65 70 75 80

Leu Ala Asp Glu Gly Thr Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp
 85 90 95

Thr Phe Thr Gly Glu Lys Thr Ile Asn Leu Thr Val Asp Val Pro Ile
 100 105 110

Ser Arg Pro Gln Val Leu Val Ala Ser Thr Thr Val Leu Glu Leu Ser
 115 120 125

Glu Ala Phe Thr Leu Asn Cys Ser His Glu Asn Gly Thr Lys Pro Ser
 130 135 140

Tyr Thr Trp Leu Lys Asp Gly Lys Pro Leu Leu Asn Asp Ser Arg Met
 145 150 155 160

Leu Leu Ser Pro Asp Gln Lys Val Leu Thr Ile Thr Arg Val Leu Met
 165 170 175

Glu Asp Asp Asp Leu Tyr Ser Cys Met Val Glu Asn Pro Ile Ser Gln

180	185	190
Gly Arg Ser Leu Pro Val Lys Ile Thr Val Tyr Arg Arg Ser Ser Glu		
195	200	205
Pro Lys Ser Cys Asp Lys Thr His Thr Cys Pro Pro Cys Pro Ala Pro		
210	215	220
Glu Leu Leu Gly Gly Pro Ser Val Phe Leu Phe Pro Pro Lys Pro Lys		
225	230	235
Asp Thr Leu Met Ile Ser Arg Thr Pro Glu Val Thr Cys Val Val Val		
245	250	255
Asp Val Ser His Glu Asp Pro Glu Val Lys Phe Asn Trp Tyr Val Asp		
260	265	270
Gly Val Glu Val His Asn Ala Lys Thr Lys Pro Arg Glu Glu Gln Tyr		
275	280	285
Asn Ser Thr Tyr Arg Val Val Ser Val Leu Thr Val Leu His Gln Asp		
290	295	300
Trp Leu Asn Gly Lys Glu Tyr Lys Cys Lys Val Ser Asn Lys Ala Leu		
305	310	315
Pro Ala Pro Ile Glu Lys Thr Ile Ser Lys Ala Lys Gly Gln Pro Arg		
325	330	335
Glu Pro Gln Val Tyr Thr Leu Pro Pro Ser Arg Glu Glu Met Thr Lys		
340	345	350
Asn Gln Val Ser Leu Thr Cys Leu Val Lys Gly Phe Tyr Pro Ser Asp		
355	360	365
Ile Ala Val Glu Trp Glu Ser Asn Gly Gln Pro Glu Asn Asn Tyr Lys		
370	375	380
Thr Thr Pro Pro Val Leu Asp Ser Asp Gly Ser Phe Phe Leu Tyr Ser		
385	390	395
Lys Leu Thr Val Asp Lys Ser Arg Trp Gln Gln Gly Asn Val Phe Ser		
405	410	415
Cys Ser Val Met His Glu Ala Leu His Asn His Tyr Thr Gln Lys Ser		
420	425	430
Leu Ser Leu Ser Pro Gly Lys		
435		
<210>	31	
<211>	186	
<212>	PRT	
<213>	Homo sapiens	

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<400>      31
Val Arg Leu Ile His Gly Thr Val Gly Lys Ser Ala Leu Leu Ser Val
1          5          10          15

Gln Tyr Ser Ser Thr Ser Ser Asp Arg Pro Val Val Lys Trp Gln Leu
          20          25          30

Lys Arg Asp Lys Pro Val Thr Val Val Gln Ser Ile Gly Thr Glu Val
          35          40          45

Ile Gly Thr Leu Arg Pro Asp Tyr Arg Asp Arg Ile Arg Leu Phe Glu
50          55          60

Asn Gly Ser Leu Leu Leu Ser Asp Leu Gln Leu Ala Asp Glu Gly Thr
65          70          75          80

Tyr Glu Val Glu Ile Ser Ile Thr Asp Asp Thr Phe Thr Gly Glu Lys
          85          90          95

Thr Ile Asn Leu Thr Val Asp Val Pro Ile Ser Arg Pro Gln Val Leu
          100          105          110

Val Ala Ser Thr Thr Val Leu Glu Leu Ser Glu Ala Phe Thr Leu Asn
          115          120          125

Cys Ser His Glu Asn Gly Thr Lys Pro Ser Tyr Thr Trp Leu Lys Asp
          130          135          140

Gly Lys Pro Leu Leu Asn Asp Ser Arg Met Leu Leu Ser Pro Asp Gln
145          150          155          160

Lys Val Leu Thr Ile Thr Arg Val Leu Met Glu Asp Asp Asp Leu Tyr
          165          170          175

Ser Cys Met Val Glu Asn Pro Ile Ser Gln
          180          185

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